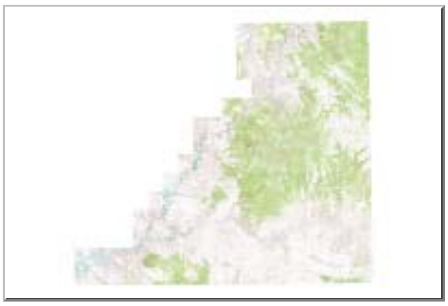
Digital Raster Graph Mosaic of San Juan County, Utah



Data format: Raster Dataset - MrSID

File or table name: San_Juan_UT_DRG.sid

Coordinate system: Universal Transverse Mercator

Theme keywords: Digital Raster Graph, Digital Raster Graph Enhanced, DRG, DRGE, Topographic Map

Abstract: The Digital Raster Graphic (DRG) is a scanned image of a US Geological Survey (USGS) standard series topographic map that includes all collar information (e.g., legend, scale bar, index map, etc.) The DRGE is a non-proprietary product of a USGS DRG in which the map collar information has been removed.

FGDC and ESRI Metadata:

Metadata elements shown with blue text are defined in the Federal Geographic Data Committee's (FGDC) *Content Standard for Digital Geospatial Metadata (CSDGM)*. Elements shown with green text are defined in the *ESRI Profile of the CSDGM*. Elements shown with a green asterisk (*) will be automatically updated by ArcCatalog. ArcCatalog adds hints indicating which FGDC elements are mandatory; these are shown with gray text.

Identification Information:

Citation:

Citation information:

Originators: U.S. Department of Agriculture, Natural Resources Conservation Service

Title:
Digital Raster Graph Mosaic of San Juan County, Utah

***File or table name:** San_Juan_UT_DRG.sid

Publication date: 20020410

Geospatial data presentation form: remote-sensing image

***Online linkage:**
\\Terra_dc\Navajo\NAUM_NN_Summary\DB\DRG\San_Juan_UT_DRG.sid

Description:

Abstract:

The Digital Raster Graphic (DRG) is a scanned image of a US Geological Survey (USGS) standard series topographic map that includes all collar information (e.g., legend, scale bar, index map, etc.) The DRGE is a non-proprietary product of a USGS DRG in which the map collar information has been removed.

Purpose:

The DRGE is useful as a source or background layer in a GIS, as a means to perform quality assurance on other digital products, and as a source for the collection and revision of DLG data. The DRGE can also be merged with other digital data, e.g. DEM's or DOQ's, to produce a hybrid digital file. The removal of the collar information allows the DRGE to be edge-matched and displayed simultaneously in a Geographic Information System.

These data are prepared for use by the Natural Resources Conservation Service for USDA Service Center personnel to administer agency programs.

Supplemental information:

Added a "San_Juan_UT_DRG.sid.aux.xml" file to the set of files that comprise this dataset. This AUX.XML identifies the Projection, Spheroid, and Datum for use of the MrSID file with ArcGIS 9.2.

***Language of dataset:** en

Time period of content:

Time period information:

Range of dates/times:

Beginning date: unknown

Ending date: unknown

Currentness reference:

Source Map

Status:

Progress: Complete

Maintenance and update frequency: None planned

Spatial domain:

Bounding coordinates:

West bounding coordinate: -111.512776

East bounding coordinate: -108.953034

North bounding coordinate: 38.642081

South bounding coordinate: 36.858198

Local bounding coordinates:

***Left bounding coordinate:** 455374.147335

***Right bounding coordinate:** 678192.700935

***Top bounding coordinate:** 4277059.200788

***Bottom bounding coordinate:** 4081006.963988

Keywords:

Theme:

Theme keywords: Digital Raster Graph, Digital Raster Graph Enhanced, DRG, DRGE, Topographic Map

Theme keyword thesaurus: None

Place:

Place keywords: San Juan County, Utah, United States
Place keyword thesaurus: Counties and County Equivalents of the States of the United States and the District of Columbia (FIPS Pub 6-3)

Access constraints: None.
Use constraints:
These data were prepared for Official Use Only by USDA employees as part of the Service Center
Initiative.

Point of contact:
Contact information:
Contact person primary:
Contact person: Geospatial Data Branch
Contact organization: U.S. Department of Agriculture, Natural Resources Conservation Service

Contact address:
Address type: mailing and physical address
Address:
Federal Center, 501 W. Felix St., Bldg 23, P.O Box 6567
City: Fort Worth
State or province: Texas
Postal code: 76115
Country: USA

Contact voice telephone: (817) 509-3400
Contact facsimile telephone: (817) 509-3469

Hours of service: 8:00 am to 4:30 pm, Central

Browse graphic:
Browse graphic file name: unavailable
Browse graphic file description:
unavailable
Browse graphic file type: unavailable

Data set credit:
The original DRG was produced through an Innovative partnership agreement between The Land Information Technology Company, Ltd., of Aurora, CO and the USGS.

***Native dataset format:** Raster Dataset
Native data set environment:
Microsoft Windows 2000 Version 5.0 (Build 2195) Service Pack 2; ESRI ArcCatalog 8.1.2.671

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Data Quality Information:

Attribute accuracy:
Attribute accuracy report:

In the source data, the DRGE is an 8-bit color image that employs a color palette to ensure uniform colors throughout a particular DRG series. All DRG's within a series have the same RGB value.

Logical consistency report:
Not Applicable

Completeness report:
According to the USGS, the DRG is a faithfully reproduced digital image of the original source map. Some differences may be detected between the source graphic used and the DRG due to the RGB values assigned that particular color. The intent is to recreate those colors as near as possible. Data completeness for DRG files reflect content of the source graphic. Features may have been eliminated or generalized on the source graphic due to scale and legibility constraints.

Positional accuracy:
Horizontal positional accuracy:
Horizontal positional accuracy report:
The datum of the published map is retained to be consistent with other USGS digital data.

Vertical positional accuracy:
Vertical positional accuracy report:
NA

Lineage:
Source information:
Source citation:
Citation information:
Originators: Beartooth Mapping, Inc.

Title:
DRGE

Publication date: 2000
Publication time: Unknown
Geospatial data presentation form: map

Publication information:
Publication place: Reston, VA
Publisher: U.S. Geological Survey

Source scale denominator: 24,000
Type of source media: CD-ROM
Source citation abbreviation:
DRGE
Source contribution:
The DRG source map imagery was processed using the Spatial Analyst Extension to ArcView 3.1 (ESRI, Inc). The map collar was removed and portions of adjacent quadrangles were appended to the input image to produce a UTM rectangle output. DRGE images from the same map series (large, intermediate, and small scale) were processed by UTM zone to produce seamless output imagery within each Zone.

The output ArcView Grid was converted to a TIFF 6.0 / GeoTIFF 1.0 image using the GridIO API (ESRI, Inc.), LibTiff Library (Copyright 1988-1998 Sam Leffler,

1991-1998 Silicon Graphics, Inc) and LibGeoTiff Library.

Additional information about DRGE imagery can be obtained from:

Beartooth Mapping, Inc.
PO Box 2075
Red Lodge, MT 59068
Telephone: (406) 446-1007
Email: info@beartoothmaps.com

Source time period of content:
Time period information:
Range of dates/times:
Beginning date: unknown
Ending date: unknown

Source currentness reference:
publication date

Process step:
Process description:
Enhanced Digital Raster Graphs (DRGE) are used to create mosaics. All DRGE's for the area of interest, typically a county, are processed using geo-referencing information from the input images to create a consolidated MrSID image. The input images are in GeoTIFF format. The mosaic is compressed to a ratio of about 1:20 to save on storage requirements and to accelerate computer processing and display.

All DRGE's must be in the same UTM zone for MrSID Version 1.3 software to create a mosaic. In areas split by a UTM zone, DRGE's in the lesser zone are reprojected to the dominant UTM zone using ArcInfo, ERDAS Imagine or similar software

Process date: 20020407

Source used citation abbreviation:
DRGE
Source produced citation abbreviation:
MrSID

Process step:
Process description:
Added a "San_Juan_UT_DRG.sid.aux.xml" file to the set of files that comprise this dataset. This AUX.XML identifies the Projection, Spheroid, and Datum for use of the MrSID file with ArcGIS 9.2.

Process software and version: ESRI ArcGIS 9.2
Process date: July 9, 2007

Process contact:
Contact information:
Contact organization primary:
Contact organization: TerraSpectra Geomatics

Contact address:
Address type: mailing and physical address

Address:
2700 E Sunset Rd, Ste A-10
City: Las Vegas
State or province: NV
Postal code: 89120
Country: USA

Contact voice telephone: 702-795-8254

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Spatial Data Organization Information:

Direct spatial reference method: Raster

Raster object information:
*__Image format:__ MrSID
*__Number of bands:__ 3

Row count: 80402
Column count: 91379
Vertical count: 1

*__Cell size X direction:__ 2.438400
*__Cell size Y direction:__ 2.438400

*__Bits per pixel:__ 8
*__Pyramid layers:__ TRUE
*__Image colormap:__ FALSE
*__Compression type:__ Wavelet

Raster object type: Pixel
*__Raster display type:__ pixel codes
*__Raster origin:__ Upper Left

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Spatial Reference Information:

Horizontal coordinate system definition:
Coordinate system name:
*__Projected coordinate system name:__ NAD_1983_UTM_Zone_12N
*__Geographic coordinate system name:__ GCS_North_American_1983

Planar:
Grid coordinate system:
*__Grid coordinate system name:__ Universal Transverse Mercator
Universal Transverse Mercator:
*__UTM zone number:__ 12
Transverse mercator:
*__Scale factor at central meridian:__ 0.999600
*__Longitude of central meridian:__ -111.000000
*__Latitude of projection origin:__ 0.000000

*False easting: 500000.000000
*False northing: 0.000000

Planar coordinate information:
Planar coordinate encoding method: row and column
Coordinate representation:
Abscissa resolution: 2.438400
Ordinate resolution: 2.438400
Planar distance units: meters

Geodetic model:
Horizontal datum name: North American Datum of 1983
Ellipsoid name: Geodetic Reference System 80
Semi-major axis: 6378137.000000
Denominator of flattening ratio: 298.257222

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Entity and Attribute Information:

Detailed description:
*Name: Band_1

Entity type:
*Entity type label: Band_1
*Entity type type: Table
*Entity type count: 256

Attribute:
*Attribute label: ObjectID
*Attribute alias: ObjectID
*Attribute definition:
Internal feature number.
*Attribute definition source:
ESRI

*Attribute type: OID
*Attribute width: 4
*Attribute precision: 0
*Attribute scale: 0

Attribute domain values:
*Unrepresentable domain:
Sequential unique whole numbers that are automatically generated.

Attribute:
*Attribute label: Value
*Attribute alias: Value

*Attribute type: Integer
*Attribute width: 0
*Attribute precision: 0
*Attribute scale: 0

Attribute:
*__Attribute label:__ Count
*__Attribute alias:__ Count

*__Attribute type:__ Integer
*__Attribute width:__ 0
*__Attribute precision:__ 0
*__Attribute scale:__ 0

Detailed description:
*__Name:__ Band_2

Entity type:
*__Entity type label:__ Band_2
*__Entity type type:__ Table
*__Entity type count:__ 256

Attribute:
*__Attribute label:__ ObjectID
*__Attribute alias:__ ObjectID
*__Attribute definition:__
Internal feature number.
*__Attribute definition source:__
ESRI

*__Attribute type:__ OID
*__Attribute width:__ 4
*__Attribute precision:__ 0
*__Attribute scale:__ 0

Attribute domain values:
*__Unrepresentable domain:__
Sequential unique whole numbers that are automatically generated.

Attribute:
*__Attribute label:__ Value
*__Attribute alias:__ Value

*__Attribute type:__ Integer
*__Attribute width:__ 0
*__Attribute precision:__ 0
*__Attribute scale:__ 0

Attribute:
*__Attribute label:__ Count
*__Attribute alias:__ Count

*__Attribute type:__ Integer
*__Attribute width:__ 0
*__Attribute precision:__ 0
*__Attribute scale:__ 0

Detailed description:
*__Name:__ Band_3

Entity type:

*Entity type label: Band_3
*Entity type type: Table
*Entity type count: 256

Attribute:

*Attribute label: ObjectID
*Attribute alias: ObjectID
*Attribute definition:
Internal feature number.
*Attribute definition source:
ESRI

*Attribute type: OID
*Attribute width: 4
*Attribute precision: 0
*Attribute scale: 0

Attribute domain values:

*Unrepresentable domain:
Sequential unique whole numbers that are automatically generated.

Attribute:

*Attribute label: Value
*Attribute alias: Value

*Attribute type: Integer
*Attribute width: 0
*Attribute precision: 0
*Attribute scale: 0

Attribute:

*Attribute label: Count
*Attribute alias: Count

*Attribute type: Integer
*Attribute width: 0
*Attribute precision: 0
*Attribute scale: 0

Overview description:

Entity and attribute overview:

In the source TIFF image (DRGE), each raster entity or pixel contains a color index from 0 through 12 referencing a color palette of RGB values from 0 through 255 in which the standard colors used in the DRGE are defined. The DRGE Color Palette (Digital Number, Color, Red, Green, Blue),

0	Black	0	0	0,
1	White	255	255	255,
2	Blue	0	151	164,
3	Red	203	0	23,
4	Brown	131	66	37,
5	Green	201	234	157,
6	Purple	137	51	128,
7	Yellow	255	234	0,
8	Light Blue	167	226	226,
9	Light Red	255	184	184,
10	Light Purple	218	179	214,

11	Light Grey	209	209	209,
12	Light Brown	207	164	142.

Essentially, the compressed mosaic contains three bands resulting in six colors when red, blue, and green are are used for image display. The colors represent the following: Contours - brown, Hydrography - blue, Public Land Survey System and other surveys - red, Updates - purple/magenta, Miscellaneous - black, and Vegetation - green.

Entity and attribute detail citation:

U.S. Department of the Interior, U.S. Geological Survey, 1997, Standards for Digital Raster Graphs: Reston, VA.

Softcopy in Adobe Acrobat Portable Document File (PDF) format: http://rmmcweb.cr.usgs.gov/public/nmpstds/drgstds.html

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Distribution Information:

Distributor:

Contact information:

Contact person primary:

Contact person: Geospatial Data Branch
Contact organization: U.S. Department of Agriculture, Natural Resources Conservation Service, National Cartography and Geospatial Center

Contact address:

Address type: mailing and physical address
Address:
Federal Center, 501 W. Felix St., Bldg. 23, P.O. Box 6567
City: Fort Worth
State or province: Texas
Postal code: 76115
Country: USA

Contact voice telephone: (817) 509-3400
Contact facsimile telephone: (817) 509-3469

Hours of service: 8:00 am to 4:30 pm, Central

Resource description: Digital Raster Graph Mosaic

Distribution liability:

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all programs.)

Standard order process:
Digital form:
Digital transfer information:
Format name: MrSID
File decompression technique: No compression applied
Transfer size: 621.411
***Dataset size:** 621.411

Digital transfer option:
Online option:
Computer contact information:
Network address:
Network resource name:
http://lighthouse.nrcs.usda.gov/gateway/gatewayhome.html.

Offline option:
Offline media: CD-ROM
Recording capacity:
Recording density: 650
Recording density Units: MB
Recording format: ISO 9660, Level 2, Mode 1

Fees: $50 per CD-ROM

Available time period:
Time period information:
Range of dates/times:
Beginning date: unknown
Ending date: unknown

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Metadata Reference Information:

Metadata date: 20020410

***Language of metadata:** en

Metadata contact:
Contact information:
Contact organization primary:
Contact person: Geospatial Data Branch
Contact organization: U.S. Department of Agriculture, Natural Resources Conservation Service, National Cartography and Geospatial Center

Contact address:
Address type: mailing and physical address
Address:
Federal Center, 501 W. Felix St., Bldg. 23, P.O. Box 6567

City: Fort Worth
State or province: Texas
Postal code: 76115
Country: USA

Contact voice telephone: (817) 509-3400
Contact facsimile telephone: (817) 509-3469

Hours of service: 8:00 am to 4:30 pm, Central

Metadata standard name: FGDC Content Standards for Digital Geospatial Metadata
Metadata standard version: FGDC-STD-001-1998
Metadata time convention: local time

Metadata extensions:
Online linkage: http://www.esri.com/metadata/esriprof80.html
Profile name: ESRI Metadata Profile

Metadata extensions:
*__Online linkage:__ http://www.esri.com/metadata/esriprof80.html
*__Profile name:__ ESRI Metadata Profile

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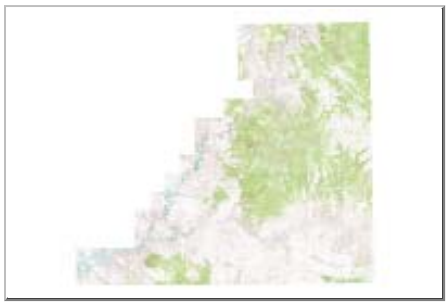
Binary Enclosures:

Thumbnail:
Enclosure type: Picture



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